

EAST Search History (26 pp.) ~~4/7~~

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L1 | 393 | ((light-emitting active light\$1emitting) adj (film layer)) and (shielding near6 pattern\$3 hologram holographic grating) and transparent near3 (electrode anode cathode) and ("257"/\$7.ccls. "438"/\$7.ccls. "313"/\$7.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:20 |
| L2 | 6 | L1 and (light\$1emitting active) near20 (hologram holographic shielding shield grating) near20 (transparent adj (electrode anode cathode)) and laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:23 |
| L3 | 5 | vcsl.ti,ab,clm. and color adj filter. ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:27 |
| L4 | 0 | vcsl near6 (color adj filter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:34 |
| L5 | 4 | vcsl near20 (color adj filter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:35 |
| L6 | 97 | vcsl and (color adj filter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:35 |
| L9 | 0 | vcsl and shielding adj layer near5 patterned | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 20:45 |
| L10 | 0 | vcsl and shielding adj layer near5 pattern\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 20:45 |
| L11 | 36 | vcsl and shielding adj layer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 21:31 |

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| L12 | 2 | ("6137459").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 21:35 |
| L13 | 2 | JP-10241860\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 21:31 |
| L14 | 2 | EP-861016\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 21:35 |
| L15 | 22253 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/100) or (257/101) or (257/102) or (257/103) or (313/506) or (372/43.01) or (372/44.01) or (372/50.11) or (372/50.124) or (359/15) or (369/103) or (369/112.1) or (369/112.15)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 22:49 |
| L16 | 712 | 15 and (luminescent light-emitting light adj emitting active) and (hologram holographic grating shielding shading) and (transparent translucent) near3 (electrode cathode anode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 22:54 |
| L17 | 118 | 15 and (luminescent light-emitting light adj emitting active) and (hologram holographic grating shielding shading) and (transparent translucent) near3 (electrode cathode anode) and @ad<"19991231" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 22:57 |
| L18 | 8 | (rohms.as. (haruo near1 tanaka).in. (hironobu near1 sai).in.) and (luminescent light-emitting light adj emitting active) and (hologram holographic grating shielding shading) and (transparent translucent) near3 (electrode cathode anode) and @ad<"19991231" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 22:59 |

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| L19 | 5 | (rohms.as. (haruo near1 tanaka).in. (hironobu near1 sai).in.) and (luminescent light-emitting light adj emitting active).clm. and (hologram holographic grating shielding shading).clm. and (transparent translucent) near3 (electrode cathode anode).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 22:59 |
| S1 | 6 | "772842".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/12 07:39 |
| S2 | 5 | "792094".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/12 09:32 |
| S3 | 1 | (US-20040155580-\$.did. | US-PGPUB | OR | OFF | 2005/09/12 10:53 |
| S4 | 1 | S3 and uneven | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/12 10:55 |
| S5 | 1 | S3 and shielding | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/12 10:56 |
| S6 | 0 | S3 and light-emission near4 related near4 hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 10:57 |
| S7 | 0 | S3 and light-emission near4 related | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 10:57 |
| S8 | 0 | S3 and light-emission near4 hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 10:57 |
| S9 | 1 | S3 and light adj emission near4 hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 11:02 |

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|-----|--------|--------------------------------------|---|----|-----|------------------|
| S10 | 0 | S3 and reflect\$3 near10 combin\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 12:17 |
| S11 | 974877 | "2" and peripheral | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 12:18 |
| S12 | 6 | "772842".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/12 12:18 |
| S13 | 3 | S12 and peripheral | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:19 |
| S14 | 11634 | "L2" and wavelength | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:19 |
| S15 | 6 | "772842".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/12 14:19 |
| S16 | 3 | S15 and wavelength | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:25 |
| S17 | 0 | S15 and wavelength near6 wavelength | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:26 |
| S18 | 0 | S15 and wavelength near10 wavelength | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:26 |
| S19 | 1 | S15 and wavelength near10 width | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:45 |

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|-----|---|--|---|----|----|------------------|
| S20 | 1 | S15 and hologram near6 peripheral | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:50 |
| S21 | 1 | S15 and hologram near6 return\$3 near6 reflect\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:53 |
| S22 | 1 | S15 and brightness near6 interference near6 illumination | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:53 |
| S23 | 1 | S15 and brightness near6 interference near6 illuminat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:54 |
| S24 | 1 | S15 and brightness near6 interference | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:57 |
| S25 | 0 | S15 and "more than one" near6 interference near6 pattern | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 14:58 |
| S26 | 1 | S15 and interference near6 "patterns" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:01 |
| S27 | 1 | S15 and "interference fringes" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:04 |
| S28 | 1 | S15 and select\$3 near6 (emit\$4 emission) near6 pattern | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:09 |
| S29 | 0 | S15 and predetrmined near6 hologram near6 image near6 display\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:10 |

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| S30 | 0 | S15 and predetermined near6 hologram near6 image near6 display\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:10 |
| S31 | 0 | S15 and predetermined near6 hologram near6 display\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:10 |
| S32 | 1 | S15 and predetermined near6 holographic near6 image near6 display\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:25 |
| S33 | 5 | "787123".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/12 15:26 |
| S34 | 6 | "772842".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 09:06 |
| S35 | 4 | (laser adj diode semiconductor adj laser) and (hologram holographic) and (surface adj light adj emitting vCSEL) and shield\$3 and transparen\$2 near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:38 |
| S36 | 2 | (laser adj diode semiconductor adj laser) and (hologram holographic). clm. and (surface adj light adj emitting vCSEL) and shield\$3.clm. and transparen\$2 near3 electrode. clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 09:33 |
| S37 | 7 | "175172".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 09:36 |
| S38 | 2 | ("6787713").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 09:38 |

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| S39 | 2 | ("6713787").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 09:38 |
| S40 | 9 | (laser adj diode semiconductor adj laser) and (hologram holographic) and (surface adj light adj emitting vCSEL) and (block\$3 shield\$3 black adj matrix) and transparen\$2 near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:48 |
| S41 | 290 | (laser adj diode semiconductor adj laser) and (hologram holographic) and (block\$3 shield\$3 black adj matrix) and transparen\$2 near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:48 |
| S42 | 3 | (laser adj diode semiconductor adj laser).ti,ab,clm. and (hologram holographic).ti,ab,clm. and (block\$3 shield\$3 black adj matrix) and transparen\$2 near3 electrode.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:50 |
| S43 | 1 | (laser adj diode semiconductor adj laser).ti,ab,clm. and (hologram holographic).ti,ab,clm. and (block\$3 shield\$3 black adj matrix).ti,ab,clm. and transparen\$2 near3 electrode. ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:51 |
| S44 | 1 | (laser adj diode semiconductor adj laser).ti,ab,clm. and (hologram holographic).ti,ab,clm. and (block\$3 shield\$3 black adj matrix).ti,ab,clm. and transparen\$2 near3 electrode. ti,ab,clm. and (hologram holographic) and (shield\$3 block\$3 black adj matrix) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:53 |
| S45 | 1 | (laser adj diode semiconductor adj laser).ti,ab,clm. and (hologram holographic).ti,ab,clm. and (block\$3 shield\$3 black adj matrix).ti,ab,clm. and transparen\$2 near3 electrode. ti,ab,clm. and (hologram holographic) and (shield\$3 block\$3 black adj matrix) and laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 10:56 |

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| S47 | 0 | (semiconductor silicon).ti,ab,clm. and laser.ti,ab,clm. and (hologram holographic).ti,ab,clm. and (block\$3 shield\$3 black adj matrix).ti,ab,clm. and transparen\$2 near3 electrode. ti,ab,clm. and (hologram holographic) and (shield\$3 block\$3 black adj matrix) and laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 11:01 |
| S48 | 1 | 372/43.01.ccls. and 359/27.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 11:05 |
| S49 | 1 | 372/4\$5.ccls. and 359/27.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 11:05 |
| S50 | 1 | 372/4\$6.ccls. and 359/27.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 11:06 |
| S51 | 79 | (EL electroluminescen\$2 laser light adj emitting) and (hologram holographic) and transparent near4 (cathode anode) and (shield\$3 pattern\$3 screen\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 11:24 |
| S52 | 1 | "20020057872".PN. | US-PGPUB | OR | OFF | 2005/10/24 11:23 |
| S53 | 40 | ((("3748480") or ("4602847") or ("4730327") or ("4805183") or ("4919507") or ("5043991") or ("5193130") or ("5220573") or ("5226053") or ("5265111") or ("5703899") or ("5838854") or ("6018421") or ("6307827") or ("6363093") or ("6411640") or ("6507595") or ("6661034") or ("6720585") or ("6850366"))).PN. or ((2002/0057872) or (2002/0172247) or (2003/0103543)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 11:26 |

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| S54 | 20 | ((("3748480") or ("4602847") or ("4730327") or ("4805183") or ("4919507") or ("5043991") or ("5193130") or ("5220573") or ("5226053") or ("5265111") or ("5703899") or ("5838854") or ("6018421") or ("6307827") or ("6363093") or ("6411640") or ("6507595") or ("6661034") or ("6720585") or ("6850366"))).PN. or ((2002/0057872) or (2002/0172247) or (2003/0103543)).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:30 |
| S55 | 2 | S54 and (shield\$3 block\$3 pattern\$3) and (hologram holograph holographic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 11:47 |
| S56 | 7 | "175172".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 13:16 |
| S58 | 80 | (shielding shield light adj blocking) near6 (holographic hologram) and (electroluminescen\$2 EL laser light adj emitting) and (shielding light adj blocking) and (electroluminescen\$2 EL laser light adj emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 13:56 |
| S59 | 118 | (shielding shield light adj blocking) near6 (holographic hologram) and (electroluminescen\$2 EL laser light adj emitting) and (shielding shield light adj blocking) and (electroluminescen\$2 EL laser light adj emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 13:41 |
| S60 | 6 | ((("5,679,964") or ("5,745,265") or ("5,568,499") or ("5,663,944") or ("5,659,420") or ("5,629,782"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 14:21 |
| S61 | 2 | jp-07033928\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 14:02 |
| S62 | 0 | ep-07033928\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 14:02 |

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| S63 | 0 | ep-0733928\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 14:02 |
| S64 | 2 | ep-733928\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 14:02 |
| S65 | 0 | GB-685286\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 14:37 |
| S66 | 57 | hologram adj device.ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 15:06 |
| S67 | 3 | hologram adj device near4 diffraction adj (lattice pattern shield\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 15:07 |
| S68 | 4 | hologram adj device near4 diffraction adj (lattice pattern shield\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:18 |
| S69 | 315 | hologram near4 diffraction adj (lattice pattern shield\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:18 |
| S70 | 69 | hologram near4 diffraction adj (lattice pattern shield\$3) and integrated | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:20 |
| S71 | 40 | hologram near4 diffraction adj (lattice pattern shield\$3) and integrated | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:23 |
| S72 | 2 | hologram near4 diffraction adj (lattice pattern shield\$3) and integrated and shield\$3 | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:26 |

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| S73 | 34 | hologram near4 transparent near4 opaque | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:50 |
| S74 | 339 | (surface adj emitting vcsel) and (hologram holographic) and @ad<"20000101" | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:51 |
| S75 | 61 | (surface adj emitting vcsel) and (hologram holographic) and @ad<"20000101" and "372"/\$7. ccls. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 15:52 |
| S76 | 19 | vcsel.ti,ab,clm. and transparent near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 16:27 |
| S77 | 33 | vcsel.ti,ab,clm. and transparent near3 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:28 |
| S78 | 7 | vcsel.ti,ab,clm. and transparent near3 electrode and hologra\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:29 |
| S79 | 20 | vcsel.ti,ab,clm. and optical adj emitter.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:32 |
| S80 | 0 | vcsel.ti,ab,clm. and optical adj emitter.ti,ab,clm. and transparent near2 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:32 |
| S81 | 0 | vcsel.ti,ab,clm. and optical adj emitter and transparent near2 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:32 |
| S82 | 1 | (vertical adj cavity adj surface adj emitting adj laser vcsel).ti,ab,clm. and optical adj emitter and transparent near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:33 |

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| S83 | 2 | (vertical adj cavity adj surface adj emitting adj laser vcsel) and optical adj emitter and transparent near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:34 |
| S84 | 158 | (vertical adj cavity adj surface adj emitting adj laser vcsel) and transparent near4 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:35 |
| S85 | 30 | (vertical adj cavity adj surface adj emitting adj laser vcsel) and transparent near4 electrode and hologra\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:56 |
| S86 | 0 | "5563710".ap. and hologra\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:58 |
| S87 | 0 | "5563710".ap. and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:58 |
| S88 | 0 | "5563710".ap. and vcsel\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:58 |
| S89 | 1 | "5563710".pn. and vcsel\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:59 |
| S90 | 1 | "5563710".pn. and vcsel\$1 and hologra\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/24 16:59 |

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| S91 | 24 | (US-20040155580-\$ or US-20020158263-\$ or US-20050128543-\$).did. or (US-6713787-\$ or US-6429461-\$ or US-6257491-\$ or US-6059188-\$ or US-6307827-\$ or US-5838854-\$ or US-5930219-\$ or US-5907312-\$ or US-5745265-\$ or US-5679964-\$ or US-5663944-\$ or US-5659420-\$ or US-5629782-\$ or US-5568499-\$ or US-6031856-\$ or US-5856048-\$). did. or (EP-733928-\$).did. or (JP-2003085807-\$ or JP-11238947-\$).did. or (JP-2000231995-\$ or EP-733928-\$). did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/10/24 17:00 |
| S92 | 4 | S91 and hologra\$4 and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 17:01 |
| S93 | 5 | S91 and vcsel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 17:01 |
| S94 | 448 | vcsel.ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/25 07:27 |
| S95 | 338 | vcsel.ti. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/25 07:29 |
| S96 | 1002 | vertical adj cavity adj surface adj emitting adj laser.ti. | USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/25 07:31 |
| S97 | 227 | vertical adj cavity adj surface adj emitting adj laser.ti. | USPAT | OR | ON | 2005/10/25 08:50 |
| S98 | 357 | (vertical adj cavity adj surface adj emitting adj laser vcsel).ti. | USPAT | OR | ON | 2005/10/25 08:51 |
| S99 | 3 | (vertical adj cavity adj surface adj emitting adj laser vcsel).ti. and transparent near3 electrode and transparent near3 substrate | USPAT | OR | ON | 2005/10/25 09:20 |
| S100 | 1 | "5563710".pn. and electrode | USPAT | OR | ON | 2005/10/25 09:18 |

EAST Search History

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| S10 1 | 3 | (vertical adj cavity adj surface adj emitting adj laser vcsel).ti. and transparent near4 electrode and transparent near4 substrate | USPAT | OR | ON | 2005/10/25 09:21 |
| S10 2 | 3 | (vertical adj cavity adj surface adj emitting adj laser vcsel).ti. and transparent near6 electrode and transparent near6 substrate | USPAT | OR | ON | 2005/10/25 11:27 |
| S10 3 | 3903 | ((257/79) or (372/43.01) or (372/50.11) or (372/50.124) or (359/15)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/25 11:28 |
| S10 4 | 86 | S103 and (surface near2 (emission emitting)) and (hologram holographic) and (laser coherent coherence) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/25 11:30 |
| S10 5 | 422 | monolithic and (hologram holographic) and lens and (light adj emitting light-emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 12:39 |
| S10 6 | 2 | ("5638469").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/05 12:39 |
| S10 7 | 0 | ("hologramnear4electrodeand(laserlight-emittinglightadjemitting)").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/05 13:02 |
| S10 8 | 99 | hologram near4 electrode and (laser light-emitting light adj emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:07 |
| S10 9 | 4 | hologram near4 electrode and (laser light-emitting light adj emitting) and monolithic | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:18 |
| S11 0 | 4 | hologram near4 electrode and (laser light-emitting light adj emitting) and monolithic and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:21 |

EAST Search History

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| S11 1 | 4 | hologram near4 electrode and (laser light-emitting light adj emitting) and monolithic and electrode and hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:49 |
| S11 2 | 8 | monolithic and ESCH and (light-emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:46 |
| S11 3 | 3 | ESCH near20 (light-emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:46 |
| S11 4 | 6 | switchable near10 hologram near10 electrode and (light-emitting laser) near10 hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:53 |
| S11 5 | 48 | switchable adj volume adj hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:53 |
| S11 6 | 0 | switchable adj volume adj hologram and monolithic | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:53 |
| S11 7 | 46 | switchable adj volume adj hologram and (light adj emitting light-emitting laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 13:54 |
| S11 8 | 18 | switchable adj volume adj hologram and (light adj emitting light-emitting laser) and integrated | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 16:51 |
| S11 9 | 0 | ("775514.ap.").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/05 13:58 |
| S12 0 | 5 | "775514".ap. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/05 14:07 |

EAST Search History

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| S12 1 | 2 | ("6750119").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/05 14:07 |
| S12 2 | 15 | switchable adj volume adj hologram and (light adj emitting light-emitting laser) and integrated and hologram and electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 16:59 |
| S12 3 | 50 | (light adj emitting light-emitting laser) and integrated and hologram and electrode and (integrated monolithic) near20 (light-emitting light adj emitting laser electroluminescen\$2) near20 (holographic hologram) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 17:00 |
| S12 4 | 37 | (light adj emitting light-emitting laser) and integrated and hologram and electrode and (integrated monolithic) near10 (light-emitting light adj emitting laser electroluminescen\$2) near10 (holographic hologram) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 17:53 |
| S12 5 | 0 | holographic adj filter near10 (VCSEL laser) near10 (integrated monolithic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 17:54 |
| S12 6 | 54 | holographic adj filter near10 (VCSEL laser) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 18:12 |
| S12 7 | 9 | holographic adj filter near10 (VCSEL laser) and (monolithic integrated) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/05 18:00 |
| S13 1 | 2457 | (holographic hologram) and (((light-emitting light adj emitting) adj (device element diode)) vcsel) | USPAT | OR | ON | 2006/07/05 18:16 |
| S13 2 | 2 | (holographic hologram) near10 (((light-emitting light adj emitting) adj (device element diode)) vcsel) near10 (integrated monolithic) | USPAT | OR | ON | 2006/07/05 18:18 |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S13 3 | 40 | (holographic hologram) near10 (((light-emitting light adj emitting) adj (device element diode)) (semiconductor adj laser vcsel)) near10 (integrated monolithic) | USPAT | OR | ON | 2006/07/05 18:18 |
| S13 4 | 2 | "6205092".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/06 10:05 |
| S13 5 | 2 | "6243334".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/06 10:06 |
| S13 6 | 2 | S135 and hologra\$4 and laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/06 11:37 |
| S13 7 | 15181 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/100) or (257/101) or (257/102) or (257/103) or (372/43.01) or (372/50.11) or (372/50.124) or (359/15)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/06 11:40 |
| S13 8 | 409 | S137 and (hologram holographic) and (light-emitting light adj emitting laser vcsel) and (IC integrated monolithic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/06 11:43 |
| S13 9 | 193 | S137 and (hologram holographic) and (light-emitting light adj emitting laser vcsel) and (IC integrated monolithic) and @ad<"19991020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/06 17:18 |
| S14 4 | 2 | ("20020031153").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/12/24 19:33 |
| S14 5 | 1 | (US-20040155580-\$).did. | US-PGPUB | OR | OFF | 2007/01/05 13:44 |
| S14 6 | 39 | (US-20040155580-\$)".did.and" luminescent adj layer and shielding adj layer | US-PGPUB | OR | OFF | 2007/01/05 13:44 |
| S14 7 | 39 | "1" and luminescent adj layer and shielding adj layer | US-PGPUB | OR | OFF | 2007/01/05 13:45 |

EAST Search History

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|----------|----|--|---|----|-----|------------------|
| S14 8 | 1 | S145 and luminescent adj layer and shielding adj layer | US-PGPUB | OR | OFF | 2007/01/05 13:56 |
| S14 9 | 2 | ("6031856").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 13:57 |
| S15 0 | 2 | ("6205092").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 14:16 |
| S15 1 | 2 | jp-62113189\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 14:17 |
| S15 2 | 2 | jp-05290971\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 14:48 |
| S15 3 | 4 | (shielding adj layer) near6 (luminescent adj layer) and hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 14:53 |
| S15 4 | 4 | (shielding adj (plate film layer pattern)) near6 ((EL electroluminescen\$2 luminescen\$2) adj (film layer)) and hologram | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:00 |
| S15 5 | 12 | ((("5,679,964") or ("5,745,265") or ("5,568,499") or ("5,663,944") or ("5,659,420") or ("5,629,782"))).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 15:00 |
| S15 6 | 2 | ep-733928\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:01 |
| S15 7 | 4 | S151 S152 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 15:03 |

EAST Search History

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|----------|------|---|---|----|-----|------------------|
| S15 8 | 5396 | hologram near6 laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 15:07 |
| S15 9 | 0 | hologram near6 (abut abutting abuts) near6 (light-emitting luminescen\$2 laser active) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 15:08 |
| S16 0 | 0 | hologram near6 (abut abutting abuts) near6 (light-emitting luminescen\$2 laser active) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:08 |
| S16 1 | 180 | hologram near6 (light-emitting luminescen\$2 laser active) near20 integrated | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:09 |
| S16 2 | 163 | hologram near6 (light-emitting luminescen\$2 laser active) near10 (unitary integrated) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:10 |
| S16 3 | 0 | hologram near6 (light-emitting luminescen\$2 laser active) near10 (unitary integrated) near10 (shield\$3 black adj matrix) and (light-emitting luminescen\$2 laser active) and (shield\$3 black adj matrix) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:11 |
| S16 4 | 1 | hologram near6 (light-emitting luminescen\$2 laser active) near10 (unitary integrated) same (shield\$3 black adj matrix) and (light-emitting luminescen\$2 laser active) and (shield\$3 black adj matrix) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 15:25 |
| S16 5 | 3 | ((("6713787") or ("6429461"))).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 16:04 |
| S16 6 | 876 | hologram.ti,ab,clm. and integrated. ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:05 |

EAST Search History

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|----------|-------|---|---|----|----|------------------|
| S16 7 | 15 | hologram.ti,ab,clm. and integrated. ti,ab,clm. and (screening shielding black adj matrix) and (light-emitting laser electroluminescen\$2 luminescen\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:17 |
| S16 8 | 2 | jp-2003085807\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:12 |
| S16 9 | 10 | jp-10296663\$-\$.did. jp-10313221\$-\$.did. jp-10313226\$-\$.did. jp-10313228\$-\$.did. jp-10322981\$-\$.did. jp-10347281\$-\$.did. jp-10347287\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:15 |
| S17 0 | 25540 | hologram.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:17 |
| S17 1 | 11853 | hologram.ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:17 |
| S17 2 | 2721 | hologram.ti. and (light\$1emitting laser luminescen\$2).ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:18 |
| S17 3 | 69 | hologram.ti. and (light\$1emitting laser luminescen\$2).ti,ab,clm. and integrated.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:19 |
| S17 4 | 30 | hologram.ti. and (light\$1emitting laser luminescen\$2).ti,ab,clm. and integrated.ti,ab,clm. and @ad<"19981020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:30 |
| S17 5 | 196 | hologram near10 integrated near10 laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:31 |

EAST Search History

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|----------|-----|---|---|----|----|------------------|
| S17 6 | 105 | hologram near5 integrated near5 laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:31 |
| S17 7 | 24 | hologram near5 integrated near5 laser and @ad<"19991212" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:53 |
| S17 8 | 31 | (holography hologram)near5 integrated near5 laser and @ad<"19991212" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:53 |
| S17 9 | 31 | (holography hologram)near5 integrated near5 laser and @ad<"19991020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 16:54 |
| S18 0 | 31 | (holography hologram)near5 integrated near5 laser and @ad<"19991020" and (hologram holography) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:06 |
| S18 1 | 32 | ldhu | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:06 |
| S18 2 | 5 | ldhu and (hologram holography) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:49 |
| S18 3 | 2 | jp-10021578\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:16 |
| S18 4 | 4 | "5621714".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:53 |
| S18 5 | 0 | ldhu and spacer near6 optional | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:53 |

EAST Search History

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|------|-------|--|---|----|-----|------------------|
| S186 | 0 | (ldhu laser adj diode adj hologram) and spacer near6 optional | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:54 |
| S187 | 0 | (ldhu laser adj diode adj hologra\$5) and spacer near6 optional | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 17:55 |
| S188 | 4 | (ldhu laser adj diode adj hologra\$5) and spacer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 18:10 |
| S189 | 80 | (ldhu laser adj diode adj hologra\$5) and integrat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 18:10 |
| S190 | 5 | (ldhu laser adj diode adj hologra\$5) and integrat\$3 near6 (advantage compact reliability) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 18:30 |
| S191 | 0 | (cost same reliability) same (integrated adj design) and semiconductor adj laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 18:31 |
| S192 | 6 | (cost same reliability) same (integrated with design) and semiconductor adj laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 18:59 |
| S193 | 20697 | ((257/79) or (257/8\$1) or (257/9\$1) or (257/100) or (257/101) or (257/102) or (257/103) or (313/506) or (372/43.01) or (372/44.01) or (372/50.11) or (372/50.124) or (359/15) or (369/103) or (369/112.1) or (369/112.15)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/01/05 19:06 |
| S194 | 6 | S193 and surface adj (emitting light\$1emitting).ti,ab,clm. and (ldhu hologram same (integrate\$1 integrati\$2 unitary)) and (electroluminescen\$2 laser light\$1emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 19:16 |

EAST Search History

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|----------|----|--|---|----|-----|------------------|
| S19 5 | 1 | ((tanaka near1 haruo).in. (hironobu near1 sai).in. rohm.as.) and surface adj (emitting light\$1emitting).ti,ab, clm. and (ldhu hologram same (integrate\$1 integrati\$2 unitary)) and (electroluminescen\$2 laser light\$1emitting).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/05 19:19 |
| S19 6 | 19 | "5757741" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/06 19:58 |
| S19 7 | 3 | S196 and hologram near20 laser | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/06 19:59 |
| S19 8 | 2 | S196 and hologram near20 laser and hologram and (active light-emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/06 20:03 |
| S19 9 | 4 | laser adj diode adj hologram adj unit | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/06 20:05 |
| S20 0 | 50 | laser adj diode near4 hologram and integrated.ti,ab,clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/06 20:52 |
| S20 1 | 9 | holographic adj grating near4 (luminescent luminescence electroluminescence electroluminescent active light\$1emitting) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/06 20:53 |
| S20 2 | 2 | ("6031856").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 14:11 |
| S20 3 | 16 | (electroluminescent EL) adj layer and transparent near2 (anode electrode cathode) and (hologram holographic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 14:14 |

EAST Search History

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|----------|----|--|---|----|----|------------------|
| S20 4 | 4 | (electroluminescent EL) adj layer and transparent near2 (anode electrode cathode) and (hologram holographic) and @ad<"19991020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 14:24 |
| S20 5 | 0 | (electroluminescent EL) adj layer and transparent near2 (anode electrode cathode) and (shielding near8 grating) and @ad<"19991020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 14:26 |
| S20 6 | 12 | (electroluminescent EL) adj layer and transparent near2 (anode electrode cathode) and (grating) and @ad<"19991020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 14:26 |
| S20 7 | 51 | pattern\$3 near4 (shielding adj (film layer)) and (electroluminescent EL) adj (film layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 14:58 |
| S20 8 | 0 | color adj filter near5 abut\$4 near5 electrode and (electroluminescent EL) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 15:02 |
| S20 9 | 5 | color adj filter near5 abut\$4 near5 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 15:04 |
| S21 0 | 5 | colo\$1r adj filter near5 abut\$4 near5 electrode | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 16:27 |
| S21 1 | 2 | jp-10021578\$-\$.did. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 16:37 |
| S21 2 | 2 | "6031856".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 16:38 |
| S21 3 | 2 | "5869929".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 16:41 |

EAST Search History

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|----------|-----|--|---|----|-----|------------------|
| S21 4 | 115 | ((el electroluminescen\$2) adj (film layer)) and (shielding near6 pattern\$3 hologram holographic) and transparent near3 (electrode anode cathode) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 16:42 |
| S21 5 | 68 | ((el electroluminescen\$2) adj (film layer)) and (shielding near6 pattern\$3 hologram holographic) and transparent near3 (electrode anode cathode) and ("257"/\$7.ccls. "438"/\$7.ccls. "313"/\$7.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 16:53 |
| S21 6 | 127 | ((el electroluminescen\$2) adj (film layer)) and (shielding near6 pattern\$3 hologram holographic grating) and transparent near3 (electrode anode cathode) and ("257"/\$7.ccls. "438"/\$7.ccls. "313"/\$7.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 18:50 |
| S21 7 | 0 | ((tanaka near2 haruo).in. (sai near2 hironobu).in. rohm.as.) and((el electroluminescen\$2) adj (film layer)) and (shielding near6 pattern\$3 hologram holographic grating).clm. and transparent near3 (electrode anode cathode).clm. and ("257"/\$7.ccls. "438"/\$7.ccls. "313"/\$7.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 17:12 |
| S21 8 | 393 | ((light-emitting active light\$1emitting) adj (film layer)) and (shielding near6 pattern\$3 hologram holographic grating) and transparent near3 (electrode anode cathode) and ("257"/\$7.ccls. "438"/\$7.ccls. "313"/\$7.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 18:51 |
| S21 9 | 10 | S218 and (light\$1emitting active) near20 (hologram holographic shielding shield grating) near20 (transparent adj (electrode anode cathode)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 20:20 |
| S22 0 | 2 | S218 and (light\$1emitting active) near20 (hologram holographic shielding shield grating) near20 (transparent adj (electrode anode cathode)) and @ad<"19991020" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/07 18:57 |
| S22 1 | 2 | ("6713787").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 20:44 |

EAST Search History

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|----------|---|-----------------|---|----|-----|------------------|
| S22 2 | 2 | ("6429461").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/07/07 18:58 |
|----------|---|-----------------|---|----|-----|------------------|